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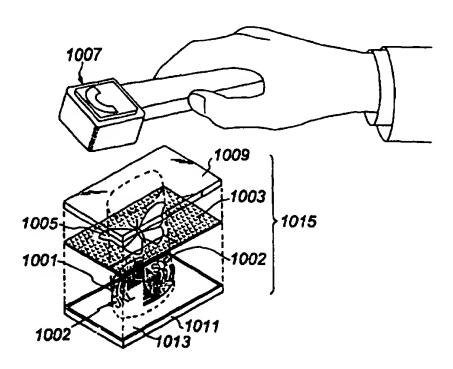
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#### (57) Abstract

Security devices which are difficult to reproduce include a grid screen metallization pattern. The grid screen metallization pattern may be laid down over a hologram or diffraction grating formed as a surface relief pattern on a substrate, to form a visually identifiable, semi-transparent security device. Additionally, the metallization pattern may include resonant structures in which information about the security device is encoded. In some embodiments of these security devices, the metallization pattern is disposed in accurate registration with the underlying hologram or diffraction grating. These security devices are made by methods which include printing an oil pattern on the substrate. Areas on which oil is deposited do not receive metal during a metallization step. Since these methods do not use caustics, metallization patterns including features which would otherwise trap and hold caustics are possible.

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IPC 6	G06K B42D	
Documenta	ion searched other than minimum documentation to the extent that such documents are included in the field	s searched
Electronic o	ata base consulted during the international search (name of data base and, where practical, search terms use	d)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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	er documents are listed in the continuation of box C.    X   Patent family members are listed.	d in annex.
"A" docume	gories of cited documents:  T later document published after the international  T later document published after the international  T later document published after the international  or priority date and not in conflict or cited to understand the principle or invention	with the application but

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PCT/US 96/18769

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inter	national Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
	Claims Nos.: secause they relate to subject matter not required to be searched by this Authority, namely:
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This Inter	national Searching Authority found multiple inventions in this international application, as follows:
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International Application No. PCT/US 96/ 18769

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/210

- 1. Claims 1-3, 22-25: Security device with metallic pattern on a substrate.
- 2. Claims 4-8: Security device with an integrated circuit on a substrate.
- 3. Claims 9-13: Method of authenticating an article with an hologramm.
- 4. Claims 14-21: Method of authenticating an article by measuring the capacitance of a metal pattern.

Internal al Application No
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